CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS RESULTS

FIELD RESULTS	HYDROLAB – YSI 6600				IN-HOFF CONE		
TIME	TEMP (°C)	PH	DISSOLVED OXYGEN (mg/l)	SPECIFIC CONDUCTANCE (umhos/cm)	Settleable Solids (ml/l)		
					10 min	30 min	60 min
07:00	20.0	7.85	0.94	3941	0.1	0.2	0.2
08:00	20.1	7.78	1.27	3931	0.1	0.1	0.1
09:00	20.0	7.74	1.34	3986	<0.1	<0.1	<0.1
10:00	19.9	7.71	2.06	3868	<0.1	<0.1	<0.1
11:00	20.2	7.73	1.81	3988	<0.1	<0.1	<0.1
12:00	20.4	7.73	1.84	4050	<0.1	<0.1	<0.1
13:00	20.7	7.76	1.80	4053	<0.1	<0.1	<0.1
14:00	21.1	7.76	1.55	4028	<0.1	<0.1	<0.1
15:00	21.5	7.81	1.30	3970	<0.1	<0.1	<0.1
16:00	21.8	7.89	0.55	3948	<0.1	<0.1	<0.1
17:00	21.9	7.97	0.30	3934	<0.1	<0.1	<0.1
18:00	22.0	7.97	0.16	3917	<0.1	<0.1	<0.1
19:00	22.5	7.92	0.21	3771	0.2	0.2	0.4
20:00	22.5	7.90	0.28	3765	0.2	0.3	0.4
21:00	22.4	8.13	0.39	3817	0.4	0.5	0.5
22:00	22.3	7.94	0.49	3829	<0.1	0.3	0.4
23:00	22.2	7.91	0.74	3826	0.1	0.3	0.3
24:00	22.1	7.92	0.53	3855	<0.1	0.3	0.3
01:00	22.0	7.80	1.27	3847	<0.1	0.2	0.4
02:00	21.8	7.88	2.03	3856	<0.1	0.2	0.3
03:00	21.6	7.96	0.83	3878	0.1	0.2	0.3
04:00	21.4	7.94	1.16	3963	0.2	0.4	0.5
05:00	21.2	7.94	1.18	3927	0.6	0.9	1.1
06:00	20.8	7.95	1.10	3872			
OCTOBER AVERAGE	21.3	7.9	1.0	3909	0.1	0.1	0.1
LAST 12 MONTHS AVE.	21.63	7.71	1.18	4,160	0.10	0.11	0.12

FIELD OBSERVATIONS:

0700 – 1200 Water level below normal, ambient temperature ranged from 17.1°C to 31 °C. Clear sky. Watercolor is olive green. There is a mild septic odor. There is no foam on the River's surface.

1200 – 1400 Ambient temperature ranged from 31 °C to 31.8 °C. No other changes observed.

1500 – 1900 Water color is dark. Ambient temperature ranged from 31.8 °C to 21.8 °C. Sun begun to set.

2000 – 2400 Ambient temperature ranged from 21.8 °C to 13.7 °C. No other changes observed.

2400 – 0600 Ambient temperature ranged from 13.7°C to 11.3 °C. No other changes observed.

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REG. WATER QUALITY CONTROL BOARD LAB			FECAL COLIFORM RESULTS (MPN/100ML)			
COLLECTION TIME	STORET CODE	ANALYSIS METHOD	OCTOBER 2002	12 MONTHS AVE	MAX VALUE	MIN VALUE
11:00	316315	Multiple Tube Fermentation	500,000	104,250	800,000	11,000
12:00	316315	Multiple Tube Fermentation	300,000	148,500	2,400,000	20,000
13:00	316315	Multiple Tube Fermentation	300,000	142,500	1,300,000	20,000
13:30	316315	Multiple Tube Fermentation	900,000	290,000	1,600,000	20,000
14:00	316315	Multiple Tube Fermentation	110,000	142,750	1,300,000	23,000
3:00	316315	Multiple Tube Fermentation	1,600,000	541,667	3,000,000	300,000
4:00	316315	Multiple Tube Fermentation	500,000	247,500	1,400,000	130,000
5:00	316315	Multiple Tube Fermentation	>1600000	189,167	>1,600,000	170,000
5:30	316315	Multiple Tube Fermentation	1,600,000	376,667	1,600,000	220,000
6:00	316315	Multiple Tube Fermentation	300,000	259,167	1,600,000	110,000

CA. DHS SANITATION AND RADIATION LAB			RESULTS (MG/L)[1]			
CONSTITUENT	US EPA METHOD	REPORTING LIMITS	OCTOBER 2002	12 MONTHS AVERAGE	MAX VALUE	MIN VALUE
MBAS	425.1	0.025	6	3.28	10.74	0.06
Phosphate-P, total	365.2	0.010	3.2	20.44	220.00	1.40
Phosphate-P, ortho	300	0.03	2.2	1.40	1.90	0.70
Phenol	420.1	0.002	0.004	0.003	0.02	0.00
Cyanide	SM4500-CNE	0.02	ND	0.008	0.08	0.01
Ammonia - Nitrogen (NH_3-N)	350.2	0.05	9.15	7.063	19.50	0.57
Nitrate - Nitrogen (NO_3-N)	300	0.1	ND	0.095	0.34	0.10
Nitrite - Nitrogen (NO_2-N)	300	0.03	0.07	0.025	0.16	0.05
Hardness as ($CaCO_3$)	130.2	1	635	773	940	167
Total Alkalinity as ($CaCO_3$)	310.1	1	330	302	459	270
Bicarbonate (HCO_3)	310.1	1	403	368	560	330
Total Filter Residue (TDS)	160.1	10	2330	2718	3100	1640
Total Suspended Solids	160.2	1	53.3	34.6	86	16
Turbidity	180.1	0.1	27.7	26.9	53	6
BOD	405.1	2	30	18.1	32	18
COD	410.4	5	71.4	84.2	132	35

CA. DHS SANITATION AND RADIATION LAB			TRACE METALS RESULTS (UG/L)[1]			
TRACE METALS	US EPA METHOD	REPORTING LIMITS	OCTOBER 2002	12 MONTH AVERAGE	MAX VALUE	MIN VALUE
As-Arsenic	200.9	0.005	4	9.7	13	3
Cd-Cadnium	200.7	0.002	ND	ND	ND	ND
Cr-Chromium	200.7	0.02	ND	ND	ND	ND
Cu-Copper	200.7	0.01	66.8	17.3	86	10
Pb-Lead	200.7	0.01	27.2	2.3	27.2	ND
Se-Selenium	200.9	0.005	ND	14	22	7
Zn-Zinc	200.7	0.01	200	60.5	212	10
Hg-Mercury	245.1	0.0002	ND	ND	0.42	0.42

[1] Composite of eight water samples collected hourly.
[2] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[3] ND = Concentration is reported below the detected limit.
[4] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
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CONSTITUENT[8] (ug/l)	STORET CODE	OCTOBER - 02 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
Benzene	34030	ND[9]	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	A-012	ND	ND	ND	ND	0.66	0.62	0.56	ND
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Mehyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	32106	0.96	0.70	0.70	1.10	1.70	1.80	1.4	1.70
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromenhane	32105	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	34571	1.10	0.77	1.10	1.40	2.40	2.40	2.30	1.60
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND

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CONSTITUENT[10] (ug/l)	STORET CODE	OCTOBER - 02 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
cis- & trans-1,3-Dichloropropylene	34561	ND[11]	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumeme)	77223	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	ND	0.65	1.30	1.20	1.2	0.90
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	0.65	0.77	0.62	0.54
Methyl Ethyl Ketone[12]	81595	ND	ND	ND	ND	ND	4.6	ND	ND
Methyl Isobutyl Ketone[13]	81596	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	ND	ND	ND	0.63	ND
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	3.40	1.1	ND	ND
Toluene	34010	0.88	0.52	0.70	1.20	5.70	3.1	2.0	1.2
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	77222	ND	ND	ND	ND	0.72	0.65	0.5	ND
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane (Freon 13)	81611	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	A-014	ND	ND	ND	ND	1.10	0.81	0.77	ND
Xylenes total		ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	77135	ND	ND	ND	ND	0.5	ND	ND	ND

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